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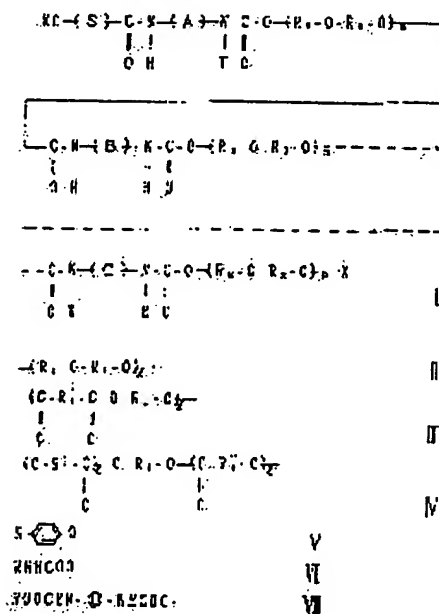
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(54) AMPHIPHILIC SEGMENTED POLYURETHANE

(57)Abstract:

PURPOSE: To obtain the title polymer excellent in emulsifying power, dispersibility, solvating power, viscoelastic strength and moldability and capable of forming a stable emulsion, having a specified structural formula.

CONSTITUTION: An alkylene oxide is reacted with an isocyanate compound and, optionally, a polyester to obtain the title polymer wherein, when viewed from one of its molecular terminals, the alkylene oxide segments vary gradually from hydrophilic one to hydrophobic one, which is represented by formula I, wherein S is a polyalkylene oxide segment of formula II [wherein R1WRx are each 2W7C (branched) polymethylene], an aliphatic polyester segment comprising a dibasic acid and a dihydric alcohol and represented by formula III (wherein R1 is a methylene of the dihydric alcohol constituting the polyester) or a polyester segment comprising an ester of a ring opening polymer of a cyclic ester with a dihydric alcohol and represented by formula IV (wherein R1 is as defined in formula III); -OX on the hydrophobic side, i.e., on the S segment side is RO-, RCOO, a group of any one of formulas VWVII (wherein R is alkyl or vinyl and (U)



is an isocyanate skeleton and -OX on the hydrophilic side is -OH, -OCl, -OBr or -OF; l, l', m, n and p are positive integers each representing the degree of polymerization; and A, B and C are each a skeleton of the isocyanate compound.

LEGAL STATUS

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